94%

82%

5.10.6	Water	Heater	Efficien	cies
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Gas-Fired Storage

Oil-Fired Storage

	2002			2004	
	Efficiency	Stock	Minimum	Best-Available	
Residential Type	Parameter (1)	<u>Efficiency</u>	New Efficiency (2)	New Efficiency	
Electric Storage	EF	0.87	0.92	0.95	
Electric Instantaneous	EF	(3)	0.93	0.99	
Electric Heat Pump	EF	(3)	0.92	2.40	
Gas-Fired Storage	EF	0.55	0.59	0.65	
Gas-Fired Instantaneous	EF	(3)	0.54	0.85	
Oil-Fired Storage	EF	0.55	0.51	0.68	
Solar	SEF	N.A.	0.80	4.80	
Commercial Type					
Electric Storage	Thermal Efficiency	96%	98%	98%	

Note(s): 1) EF = energy factor and SEF = solar energy factor, which is the hot water energy delivered by the solar system divided by the electric or gas energy input to the system. 2) Based on 40 gallon tank. 3) Included in storage stock efficiency.

76%

75%

80%

78%

Thermal Efficiency

Thermal Efficiency

Source(s): EIA, Supplement to the AEO 2004, Jan. 2004, Table 21 and Table 22 for stock efficiencies; GAMA, Consumer's Directory of Certified Efficiency Ratings for the Residential and Water Heating Equipment, May 2004 for best available efficiencies and minimum efficiencies; and SRCC, Summary of SRCC Certified Solar Collector and Water Heating System Ratings, Apr. 2000, p. S-16 - S-20 for SEFs, Table 2.2, p. 4.